**CREDIT CARD FRAUD DETECTION**

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**ABSTRACT**

Informal Description:

The challenge is to recognize fraudulent credit card transactions so that the customers of credit card companies are not charged for items that the did not purchase.

Formal description:

A computer program is said to learn from experience E with respect to some class of tasks T and performance measure P, if its performance at tasks in T, as measured by P, improves with experience E.

For example:

Task(T): To recognize fraudulent credit card transactions.

Experience(E): A dataset which contains transactions made by credit cards in September 2013 by European cardholders.

Performance(P): The number of fraudulent transactions and Valid Transactions.

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**1.INTRODUCTION**

Motivation:

Credit card fraud avoidance has been the most popular problem in the developed world. Since e-commerce sites are becoming more popular, credit card fraud is becoming more common. So our goal is to find the number of fraudulent transactions.

Benefits of solution:

We can track online fraud transactions, the new technology employs a variety of methods. To increase the consistency of the proposed scheme, we used a Machine learning to find suspicious transactions.

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**2.DATA SET FINALIZATION**

1. [Credit Card Fraud Detection | Kaggle](https://www.kaggle.com/datasets/mlg-ulb/creditcardfraud)

The dataset contains transactions made by credit cards in September 2013 by European cardholders.

The dataset is highly unbalanced, the positive class (frauds) account for 0.172% of all transactions.